

ABSTRACT OF THE DISCLOSURE

A thixocast Fe-based alloy material is provided, from which a cast product having mechanical properties uniform over the whole thereof can be produced.

5 The Fe-based alloy material comprises

1.8 % by weight \leq C \leq 2.5 % by weight,

1.0 % by weight \leq Si \leq 3.0 % by weight,

0.1 % by weight \leq Mn \leq 1.5 % by weight,

0.5 % by weight \leq Ni \leq 3.0 % by weight, and

10 as the balance, iron (Fe) including inevitable impurities. The eutectic crystal amount Ec is in a range of 10 % by weight $<$ Ec $<$ 50 % by weight.